UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION I		
10/716,444	11/20/2003	Gi Hyeong Do	9988.075.00-US 6634		
30827 MCKENNA LO	7590 04/16/2007 ONG & ALDRIDGE LI	EXAMINER			
1900 K STREET, NW WASHINGTON, DC 20006			GRAVINI, STEPHEN MICHAEL		
			ART UNIT	PAPER NUMBER	
		3749			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	04/16/2007	DADED		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

					9				
		Application No	•	Applicant(s)	_				
Office Action Summary		10/716,444		DO, GI HYEONG					
		Examiner		Art Unit					
		Stephen Gravini		3749					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status	•								
1)[🛛	Responsive to communication(s) filed on 16 Fe	ebruary 2006.							
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.								
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims								
4) Claim(s) 1-4, 6-12 and 15 is/are pending in the application. 4a) Of the above claim(s) 9-12 and 15 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 6-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 9-11+√ are subject to restriction and/or election requirement.									
Applicati	on Papers								
9) 🗀 '	The specification is objected to by the Examiner	r.							
	The drawing(s) filed on is/are: a) ☐ acce		jected to by the E	xaminer.					
	Applicant may not request that any objection to the o								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
	nder 35 U.S.C. § 119		diam'd dimo	, , , , , , , , , , , , , , , , , , , ,					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachment									
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🗌	Interview Summary (Paper No(s)/Mail Da						
3) Inform	nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	5) 6)							

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-4 and 6-8, drawn to an apparatus combination, classified in class
 subclass 595.
- II. Claims 9-12, drawn to a method, classified in class 34, subclass 495.
- III. Claim 15, drawn to an apparatus subcombination, classified in class 34, subclass 606.

The inventions are distinct, each from the other because of the following reasons:

Inventions of groups I & III and group II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed can be practiced by another and materially different apparatus or by hand because the newly amended independently claimed process step of performing a drying procedure, wherein a motor, a heater and an exhaust fan are driven during the drying procedure are not limitations in any of the independently claimed apparatus groups.

Application/Control Number: 10/716,444

Art Unit: 3749

Inventions of group I and group III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the group I combination is not limited by the particular independent group III claim step of sensing an internal temperature of a drying and cooling procedure and indicative of a drying and cooling procedure. The subcombination has separate utility such as cooling laundry dryer items wherein the combination is separately used for heat sensing only.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required

Application/Control Number: 10/716,444

Art Unit: 3749

because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Amended claim 9 and newly submitted claim 15 directed to an invention that is independent or distinct from the invention originally claimed for the reasons set forth above. The amendment made to independent claim 9 is such that it would be a burden on the Office to examine the newly amended and claimed subject matter.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 9-12 and 15 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

Claims 1-4 and 6-8 are rejected under 35 U.S.C. 102(e) as being anticipated Sung (US 5,245,764). The claims are reasonably and broadly construed, in light of the accompanying specification, to be disclosed by Sung and comprising:

a temperature sensor 6 for sensing an internal temperature of the laundry dryer and outputting a sensed temperature signal indicative of the internal temperature; and

a microcomputer **13** for controlling a plurality of drivers associated with a heater, motor and exhaust fan according to the sensed temperature signal from said temperature sensor, wherein said microcomputer stops the heater and the motor, thereby initiating a cooling procedure, and the exhaust fan driver operates during the cooling procedure, such that the exhaust fan draws air out of a drum in the dryer. Sung

Art Unit: 3749

also discloses the claimed microcomputer controls the plurality of drivers by comparing the sensed internal temperature with a predetermined temperature value as shown on the face of that reference, wherein the predetermined temperature value corresponds to an internal temperature of 50°C at column 6 lines 37-51, wherein the sensed temperature signal indicates the internal temperature of the laundry dryer during the cooling procedure at column 1, wherein said microcomputer drives the exhaust fan during the cooling procedure at column 5 lines 9-22, wherein the sensed temperature signal indicates the internal temperature of the laundry dryer after completion of a drying procedure at column 2 lines 41-52, and wherein the heater, motor, and exhaust fan are driven during the drying procedure at column 3 lines 30-55 and column 4 line 41 through column 8 line 24.

Double Patenting

Claims 1-4 and 6-8 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 6,983,552 in view of claims 1-11 of U.S. Patent No. 6,775,923. Although the conflicting claims are not identical, they are not patentably distinct from each other because assignee's '552 patent, another laundry dryer, claims moisture measurement instead of sensing temperature, while assignee's '923 patent claims sensing temperature, as claimed in the present application. It would have been obvious to one skilled in the art to combine the patented moisture measurement with the patented temperature sensing for the purpose of cooling procedure laundry items within a drying environment to prevent damage to the articles to be dried.

Art Unit: 3749

Response to Amendments

Applicant's amendments filed in response to a recent application interview have been fully considered but are considered moot in view of a new search necessitated by the changed scope of the claimed invention.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gravini whose telephone number is 571 272 4875. The examiner can normally be reached on normal weekday business hours (east coast time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Rinehart can be reached on 571 272 4881. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/716,444

Art Unit: 3749

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SMG April 13, 2007

Stephen Soni